

PATENT ABSTRACTS OF JAPAN

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(54) PRODUCTION OF MAGNESIUM HYDROXIDE

(57)Abstract:

PURPOSE: To improve the crystal growth property by allowing quick lime to react with an aq. soln. contg. ions of Cl, Br, NO₃, etc., allowing the obtained slaked lime to react with MgCl₂ or Mg(NO₃)₂ in a specified equivalent ratio and further hydrothermally treating the reaction product.

CONSTITUTION: Quick lime is allowed to react with an aq. soln. of NaCl, KBr, KNO₃, etc., contg. about 0.1-5mol/l of ≥ 1 kind among Cl, Br and NO₃ ions at about 10-65° C, and a slurry at pH 11-11.8 contg. the slaked lime shown by formula I is obtained (A- is Cl, Br and NO₃ ions, etc., and 0<x<0.1). About 0.5-0.95 equivalents of the slurry is allowed to react with one equivalent of MgCl₂ or Mg(NO₃)₂ in an aq. medium to form a basic MgCl₂ or basic Mg(NO₃)₂ shown by formula II (A is Cl and NO₃, 0<x<0.2, and m is 0-6), the product is hydrothermally treated at about 150-250° C, and the Mg(OH)₂ having about 1-10m²/g specific surface, about 0.5-5 μ m crystal grain diameter and 0.5-5 μ m average secondary grain diameter and almost without being aggregated is obtained.

